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SWEET CORN VARIETY TRIALS - 1966

OHIO AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER
Lane Avenue Center, Columbus, Ohio

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DEPARTMENT OF HORTICULTURE

The Ohio Agricultural Research and Development Center
Wooster, Ohio

✓ Horticulture Mimeograph Series No. 332, January 12, 1967

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OHIO AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER
Lane Avenue Center, Columbus, Ohio

Department of Horticulture Mimeograph Series No. 332
January 12, 1967

SWEET CORN VARIETY TRIALS - 1966
Columbus, Ohio

Walter N. Brown *

In the 1966 sweet corn evaluation trials at Columbus, 70 varieties were planted June 17 in single row plots replicated five times. Each plot consisted of 21 hills spaced 18" in rows 36" apart. Four kernels per hill were planted by hand jabber. Stand counts were made at the 2-3 true-leaf stage to determine germination and missing hills. Later seedlings were thinned to two plants per hill permitting a maximum stand of 19,360 plants per acre. A rye grass cover crop was plowed down and 500 lbs/A of 12-12-12 was drilled and disked in prior to planting. Immediately after planting, Simazine ($2\frac{1}{2}$ lb/25 gal.) was applied. Plants were not sprayed for control of flea beetle, corn borer, or corn ear worm. First harvest was made on August 11 and the last on September 2, 1966.

For the yield records only, marketable size ears were included. No treatment for ear worm was used since it was desired to evaluate the inherent ear worm resistance. It was assumed that insects could have been controlled by the use of suitable treatments.

The symbols and rating systems used are as follows:

Average Depth of Kernel - Average length of 3 kernels from center section of three ears selected at random from each plot.

Color of Kernel - L-light, M-medium, D-dark; Y-yellow, W-white; B-bright, I-intermediate, D-dull; MIX-mixed yellow and white.

Ease of snapping: 1-very difficult to 5-easily snapped.

Shanks: 1-long, over 6 inches to 5-short one inch or less.

Flag Length: 1-less than two inches to 5-over eight inches.

Flag Number: 1-none to 5-over eight.

Tip Cover: 1-exposed to 5-long, extending 3 inches or more.

Silk Cover: 1-dark brown to 5-clear or white.

Husk Tightness: 1-loose to 5-tight.

General Uniformity: 1-poor to 5-excellent.

SOURCE OF SEED

Code

A-2	Arrow Seed Company, Orange, Conn. 06477
B-1	W. Atlee Burpee & Co., P. O. Box 6929, Philadelphia, Pa. 19132
F-1	Ferry-Morse Seed Co., P. O. Box 398, Racine, Wisc. 53401
H-1	Joseph Harris Co., Inc. Moreton Farm, Rochester, N.Y. 14624
H-2	The Holmes Seed Co., 2125 46th St., N.W., Canton, Ohio 44709
L-2	Letherman Seed Co., 501 McKinley Avenue, N.W., Canton, Ohio 44702
R-1	Robson Quality Seeds, Inc., Holl N.Y. 14463
S-1	Stokes Seeds, Ltd., Box 15, 86-88 Exchange St., Buffalo, N.Y. 14205

* Department of Horticulture, Ohio Agricultural Research and Development Center, 1827 Neil Avenue, Columbus, Ohio 43210

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GENERAL COMMENTS

Temperatures were slightly above normal for June and July and normal for August. Rainfall was about 4.0" below normal for June and approximately 1.5" above normal for July. All varieties required fewer calander days to mature because of the late planting date.

Mean temperatures and rainfall recorded at University Farm, Columbus, are given below:

	<u>Mean Temperature</u>	<u>Rainfall</u>
June 17-30	75.4 degrees F.	0.16"
July	75.6	5.77"
August	70.9	4.85"
September 1-2	75.0	.00"

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Columbus, Ohio

(Six Replications)

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SWEET CORN VARIETY TRIALS
Columbus, Ohio

(Six Replications)

Variety, Lot Number and Source		Days to First Harvest	Marketable Yield/A.		Average Wt. of Ears Unhusked lbs.	Average Length of Ears Husked ins.	Average Diameter of Ears Husked ins.	Percentage of Ears Having Given Number of Rows of Kernels								Average Depth of Kernel mm	Color Kernel	Ear Smut %	Ear Worm %	(Six Replications)											
			Dozens of Ears	Weight (Tons)				Rows of Kernels												Ease of Snapping (1-5)	Shanks (1-5)	Flag Number (1-5)	Flag Length (1-5)	Tip Cover (1-5)	Silk Color (1-5)	Husk Color (1-5)	Husk Tightness (1-5)	General Uniformity (1-5)			
								8	10	12	14	16	18	20	22																
			Doz.	T.				%	%	%	%	%	%	%																	
28	Exp. F 5504 B T-65	F-1	66	1,413	4.9	0.58	7.8	1.6	-	-	10	15	75	-	-	-	8.0	MYB	-	5.4	3	2	3	4	2	4	2	3	3		
24	White Dutch 110A	S-1	66	1,406	4.9	0.58	7.4	1.5	-	-	-	30	50	20	-	-	7.3	MWB	-	-	3	3	3	3	3	5	2	3	3		
27	Queen Ann 1486K	L-2	66	1,398	4.9	0.58	7.8	1.5	-	-	65	35	-	-	-	-	7.7	LYI	-	6.0	3	4	3	4	3	5	2	3	3		
65	Seneca Arrow 1232 LF	R-1	67	1,590	6.2	0.65	7.9	1.7	-	-	30	40	25	5	-	-	7.3	MYI	1.0	1.4	4	3	3	4	3	5	3	3	3		
29	Sugar King 2486K	L-2	67	1,498	5.8	0.65	7.9	1.6	-	-	25	55	20	-	-	-	8.3	MYB	-	3.1	4	3	3	4	3	3	4	3	3		
53	Golden Trophy L. 3057T16	H-1	69	1,798	7.5	0.69	8.3	1.8	-	-	-	15	30	55	-	-	11.7	MYB	-	3.8	4	4	3	4	3	3	3	3	4		
37	Golden Eagle L 2058M-T	H-1	69	1,790	7.6	0.70	8.1	1.6	-	10	60	25	5	-	-	-	8.3	LYB	-	0.9	4	3	4	4	4	2	4	3	4		
59	Defender T-65	H-2	69	1,613	6.5	0.67	8.2	2.3	-	-	-	5	20	50	25	-	7.7	LYI	-	20.0	3	4	4	4	2	3	3	3	3		
ISD @ 5% Level				263	0.8																										

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Columbus, Ohio

(Six Replications)

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(Six Replications)

Variety, Lot Number and Source		Days to First Harvest	Marketable Yield/A.		Average Weight of Ears Unhusked	Average Length of Ears Husked	Average Diameter of Ears Husked	Percentage of Ears Having Given Number of Rows of Kernels								Average Depth of Kernel	Color Kernel	Ear Smut	Ear Worm	(See Replications)										
			Dozens of Ears	Weight (Tons)																Ease of Snapping (1-5)	Shanks (1-5)	Flag Number (1-5)	Flag Length (1-5)	Tip Cover (1-5)	Silk Color (1-5)	Husk Color (1-5)	Husk Tightness (1-5)	General Uniformity (1-5)		
								8	10	12	14	16	18	20	22															
			Doz.	T.	lbs.	ins.	ins.	%	%	%	%	%	%	%	mm		%	%												
19	Snowdrift 119A	S-1	73	1,690	6.8	0.67	8.3	1.8	-	-	-	-	5	75	20	-	9.7	MWB	1.4	12.3	2	3	4	4	2	3	3	2	2	
45	Jubilee 1846LF	R-1	73	1,690	6.4	0.63	8.4	1.7	-	-	5	5	15	60	15	-	10.3	MYB	-	5.9	2	3	3	3	2	4	3	3	4	
44	Golden Jubilee 109A	S-1	73	1,590	6.7	0.70	8.4	1.7	-	-	-	25	55	20	-	-	9.3	MYB	1.4	1.0	2	4	4	4	2	4	2	3	4	
41	Seneca Chief 1315 LF	R-1	74	1,828	6.0	0.55	8.3	1.5	-	5	75	15	5	-	-	-	9.7	LYB	-	4.6	3	4	3	4	3	4	3	3	3	
46	Golden Cross Bantam 176K	L-2	74	1,828	6.3	0.57	8.3	1.6	-	25	70	5	-	-	-	-	8.3	MYB	0.4	9.2	4	4	4	4	2	4	3	3	3	
48	Merit 56422-F32	A-2	74	1,759	7.9	0.75	8.7	1.9	-	-	-	10	20	55	15	-	12.0	MYB	-	1.7	4	4	3	2	2	5	2	2	4	
42	Wonderful 44-2098-1	H-1	74	1,652	6.3	0.63	8.2	1.6	-	-	35	60	5	-	-	-	10.0	LYB	-	7.0	3	3	3	4	3	2	3	3	4	
55	Golden Fancy 53513-F32	A-2	74	1,606	7.1	0.73	8.3	1.8	-	-	-	10	50	40	-	-	8.0	MYB	-	10.0	4	4	4	4	2	4	3	2	4	
				263	0.8																									
LSD @ 5% Level																														

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				Dozens of Ears	Weight (Tons)				8	10	12	14	16	18	20	22					Ease of Snapping (1-5)	Shanks (1-5)	Flag Number (1-5)	Flag Length (1-5)	Tip Cover (1-5)	Silk Color (1-5)	Husk Color (1-5)	Husk Tightness (1-5)	General Uniformity (1-5)	
32	Exp. E 3100 H-62F	F-1	74	1,506	5.9	0.66	9.2	1.7	-	-	10	40	30	20	-	-	8.7	MYI	1.0	10.7	4	4	3	4	2	4	2	2	2	
50	Golden Delight T-65	H-2	74	1,099	4.2	0.64	7.5	1.6	-	-	10	5	50	20	10	5	7.3	LYI	-	6.3	4	4	3	3	3	4	3	3	2	
50	Golden Security 176 C	L-2	75	2,589	8.8	0.57	7.7	1.6	-	-	5	35	50	10	-	-	8.7	MYB	-	5.3	4	4	4	3	4	3	3	4	4	
51	Surecrop 3008F	H-1	75	2,466	9.1	0.61	7.9	1.6	-	-	-	40	60	-	-	-	8.0	LYB	-	0.6	4	4	4	4	3	3	3	4	4	
54	Honeycross 6263	B-1	75	1,836	6.9	0.65	7.8	1.7	-	-	20	25	45	10	-	-	7.7	MYB	-	12.6	4	4	4	4	2	4	3	3	3	
43	Seneca Warpath 1461 LF	R-1	75	1,659	6.5	0.66	8.0	1.7	-	-	20	60	20	-	-	-	8.3	MYI	-	5.1	4	3	3	4	3	4	3	4	2	
52	Atlas 33504-F32	A-2	75	1,598	7.6	0.79	9.1	1.8	-	-	-	-	-	75	25	-	9.3	MYB	-	15.4	3	4	4	4	2	5	3	2	3	
57	Deep Gold 176L	L-2	75	1,560	6.8	0.72	8.4	1.9	-	-	-	-	40	40	20	-	12.0	DYI	0.5	9.4	3	4	3	3	3	4	3	2	3	
LSD @ 5% Level				263	0.8																									

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